

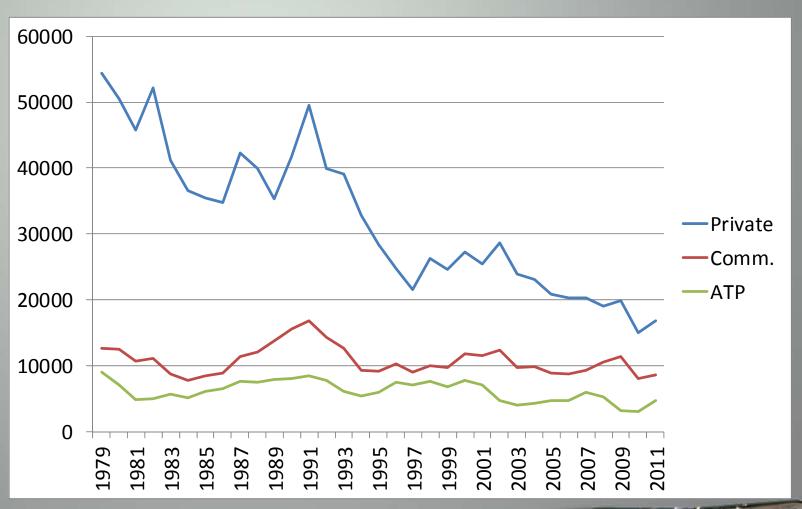
### U.S. Pilot Labor Supply

Kent Lovelace
Jim Higgins





### Pilot Certificates Issued (FAA and GAMA)





## Trends in Pilot Supply

# Student Pilot Certificates Issued

- 1991: 82,205
- 2011: 55,298
- Reduction of 33%

## Private Pilot Certificates Issued

- 1991: 49,580
- 2011: 16,802
- Reduction of 66%

Source: 2011 FAA Airmen Statistics





### Trends in Pilot Supply

# **Commercial Pilot Certificates Issued**

- 1991:16,868
- 2011: 8,559
- Reduction of 49%

#### **ATP Certificates Issued**

- 1991: 8,437
- 2011: 4,677
- Reduction of 45%

Source: 2011 FAA Airmen Statistics





## Trends in Pilot Supply

#### **Average Age 1991**

- Private: 42.0
- Commercial: 42.2
- ATP: 43.6

#### **Average Age 2011**

- Private: 47.9
- Commercial: 44.4
- ATP: 49.7

Source: 2011 FAA Airmen Statistics

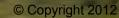


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### Career Aspirations Study

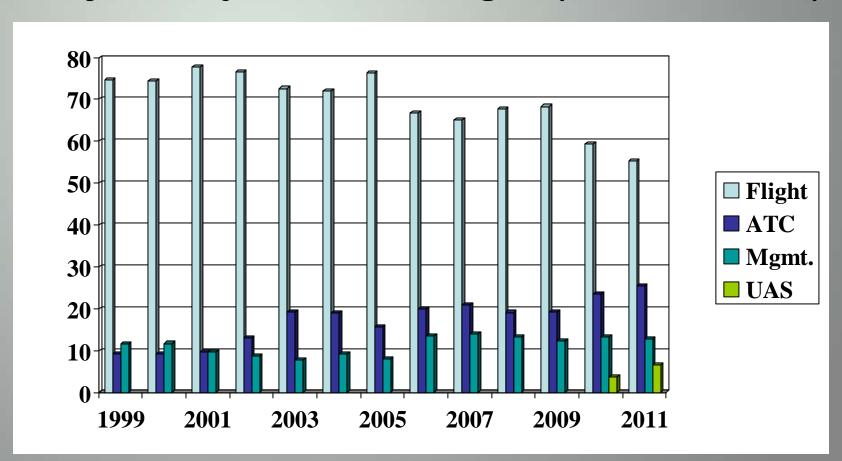
- Participants
  - Sample (N=240) includes responses from instructor pilots at 17 different university flight programs
- Preliminary Results
- Initial Career Aspirations (When flight training began)
  - 69.2% aspired to be airline pilots
- Current short term (next five years) Career
   Aspirations
  - 46.3% aspire to be airline pilots
- Current long term Career Aspirations
  - 37.9% aspire to be airline pilots

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#### UNDATE OFFICE

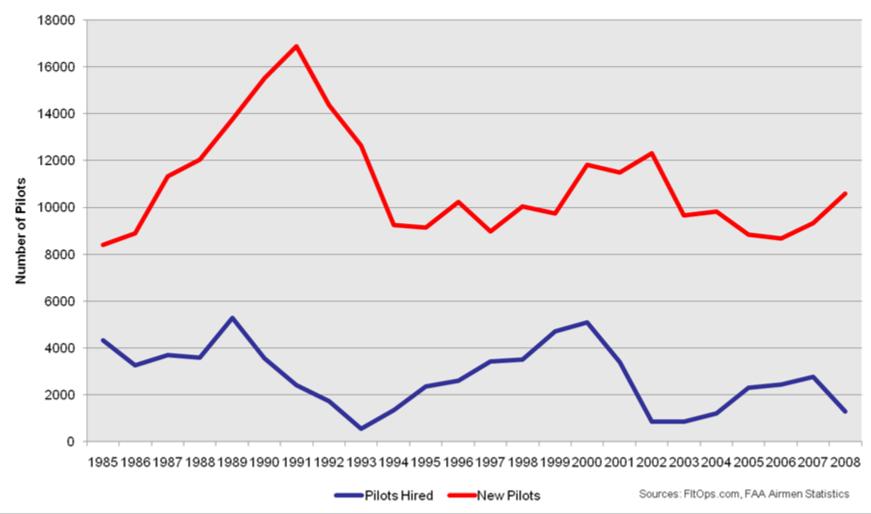
### Distribution of ≈1300 Aviation Majors by Percentage (Fall Count)







#### Historical Pilots Hired at Major Airlines vs. New Commercial Pilots Created





# Long Term Forecast

Reason	New Pilots Required 2012-2031
Retirement (2.1% annually)	129,383
Aircraft Additions	40,917
Other Attritions* (5.09%)	138,414
Total	308,714

<sup>\*</sup>Using a low rate of 2.50%



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#### The UND Forecast Surplus/Shortfall Supply derived from model

```
Y = 1.28(X) – 153(Z) + 7868;

where: y = New commercial pilots in 2 years

x = Pilots hired at a major airline, and

z = Percent change year-over-year in

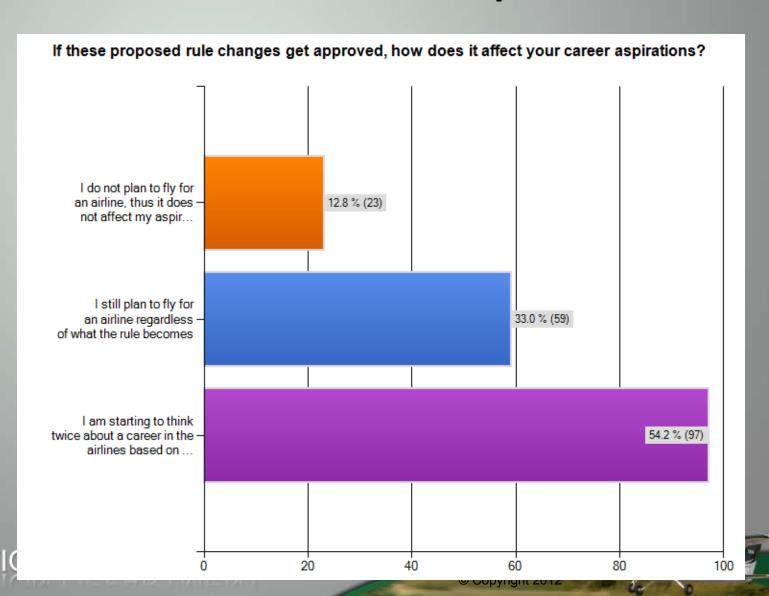
flight training costs
```

- Demand derived from FAA forecast aircraft, retirements and other attrition
- Forecast in a nutshell:
  - Between 2012 and 2031, there will be a 38,178 pilot shortfall
  - This shortfall is for <u>all</u> commercial operations





### NPRM Career Aspirations



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- Unintended Consequences of ATP Requirements
  - How many potential pilots will decide on another career?
    - Recent UND data indicates 54.2% would reconsider their career choice if the NPRM was finalized
    - Taking half of that number (27.1%), from 2013-2031, there will be an estimated loss of 74,022 pilots
    - With only a 10% impact, there would be a loss of 27,315 pilots
    - This is in addition to the current projected shortfalls with status quo ATP requirements

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### Mitigation Strategies

- Securing Supply
  - Airline involvement in student recruitment and career education
  - Airline sponsored career path
  - JetBlue/Cape Air
  - ExpressJet/Delta
  - Airline help with loan consolidation with reduced interest rates
  - Airline sponsored scholarships/student debt retirement
  - Sponsored Ab Initio flight training

